

PROJECT: Midnite Mine Remediation REPORT NO: 2021-31

OWNER: Newmont/Dawn Mining OPERATOR: Newmont/Dawn Mining

SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period October 22 – 28, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period October 22 – 28, 2021					
FIRST AID INJURY	0	PROPERTY DAMAGE	0		
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0		
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES	0		
		REPORTED			
LOST TIME INJURY	0				
Comments:					

COMMUNITY LIAISON

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries, demobilization, and WTP Solids transport.
- End of construction season community meeting scheduled for November 3.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

Weekly Progress Meeting:

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 27 October 2021 at 10:00 am:

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

Meeting Action Items:

None



EPA Plan/Document Approvals:

During the Weekly Construction Progress meeting, the EPA verbally agreed that a work plan is not required for revegetation of the effluent pipeline, as effluent pipeline revegetation is prescribed in Appendix J – Influent and Effluent Pipelines of the 100% Design BODR and Appendix A of the RAWP.

Regulatory Site Visit(s):

None.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of October 22 – 28, 2021, the following activities were conducted:

- Newmont excavated, hauled, and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP). Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- SLV Earthmovers continued crushing and screening operations at the Hillside Waste Rock Pile
 (HSWRP). They continue to produce Drain Gravel and Geomembrane Bedding. Newmont hauled these
 materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec,
 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples
 of Drain Gravel, and Geomembrane Bedding submitted to Budinger and Associates for gradation
 analysis. All products conformed with project specifications.
- Newmont continued pumping water from Pit 3 into the South Pond.
- Stantec performed the weekly South Pond Embankment inspection and downloaded transducer data from the South Pond Piezometer. The embankment remains stable and water levels in the piezometer remain steady.
- Stantec performed visual dust monitoring at the crushing and screening operation. No visible dust was observed.
- Halme Construction resumed Effluent Pipeline construction activities. Work activities included:
 - o Installed pipe along Blue Creek Road between Stations STA 107+22 and 121+50.
 - o Installed Culvert #4 (Sta 120+25).
 - o Placed shoulder gravel on the New Access Road.
- All construction activities are scheduled to shut down for the winter season on Friday (10/29/2021).

Table 1 - 2021 Production Estimates

	Rep	orting Perio	d	Y	Annual				
Material	Production (yd3)		% of Planned	Planned Production (yd3)	Estimated Volume1 (yd3)	% of Planned	% Complete		
Haulage to Pit 4	Haulage to Pit 4								
SWRP	17,919	20,272	113%	577,147	1,179,668	204%	156%		
HSWRP	1,889	0	0%	56,490	2,828	5%	4%		
Pit 4 Overburden	0	0		341,740	321,748	94%	96%		
CSZ Cleanup	0	0		4,916	28,700	584%	574%		
Pit 3 Sediments	0	0		35,000	0	0%	0%		



	Rep	orting Perio	d	١	Annual				
Material	Planned Production (yd3)	Estimated Volume1 (yd3)	% of Planned	Planned Production (yd3)	Estimated Volume1 (yd3)	% of Planned	% Complete		
Total	19,808	20,272	102%	1,015,293	1,532,944	151%	132%		
Aggregate Prod	Aggregate Production								
Drain Gravel	8,500	4,692	55%	258,400	200,289	78%	66%		
Liner Bedding	0	0		9,250	9,414	102%	102%		
Geomembrane Bedding	8,500	4,118	48%	258,400	192,558	75%	50%		
Total	17,000	8,810	52%	526,050	402,261	76%	58%		

^{1 -} Truck load assumed to be 27 yd3

Stormwater Pollution Prevention Plan (SWPPP)

- Completed SWPPP inspection on October 25. No deficiencies or required changes identified.
- Newmont continued construction of a new lined channel, the SWRP East SWPPP Ditch, to replace the
 previous winter SWPP channel.
- Halme Construction maintained silt fence along Blue Creek Road and began installing winter BMPs.

Spill Prevention, Control, and Countermeasure Activities (SPCC)

No spills were reported during this week.

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period:

• None.

The following equipment was demobilized from the Site during this reporting period:

- Caterpillar D8 dozer (Halme)
- Caterpillar compactor (Halme)
- 2 Caterpillar haul trucks

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period:

None.

CONSTRUCTION QUALITY ASSURANCE

Dust Control and Monitoring

All 8 dust monitors operated on site at the locations and for the time intervals listed in Table 2 below. There was no exceedance of the TSP action level (260 μ g/m³) during this time-period. All construction activities are scheduled to shut down for the winter season on Friday (10/29/2021).

Bison Engineering was on site Wednesday (10/27/2021) to conduct the quarterly meteorological station calibration. The station was calibrated and relocated to the parking area west of Trailer Village for the duration of the winter season. Bison shut-down the dust monitoring system and removed all samplers. Nine samplers



(including one spare) were transported to the Bison Engineering facility in Helena, Montana for annual winter maintenance and repair.

Table 2 - TSP Dust Monitoring Locations during reporting period October 22 - 28, 2021

			Status							
Monitor ID	Location Description	Start Date	Fri	Sat	uns	Mon	en⊥	Med	Thurs	
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	D/N	0	
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	D/N	0	
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	D/N	0	
ES-4 (roving)	Northeast of EP Station 45+00	09/24/21	D/N			D/N	D/N	D/N	0	
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	D/N	0	
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	D/N	0	
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/N	D/N	0	
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	D/N			D/N	D/N	D/N	0	

D=Day Shift (6:00 am to 4:30 pm)

Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

CQA Documentation

CQC-CQA Field	d Acceptance Forms							
Acceptance No.	Title CQC-CQA Issue Date							
2021-17	Stainless Steel Passivation Alternative Procedure ASTM A380 2021 Annual Inspection of South Pond Piping Mine Site - South Pond CQA Requested Clarification on Photo Documentation							
Project DCNs								
DCN No.	Title	Submittal Date	EPA Response Date					
None								
Project ECNs								
ECN No.	Title	Submittal Date	EPA Response Date					
*2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment Mine Site – South Pond The EPA requested a Final Report be prepared (including all test data) Stantec received laboratory test data on 9/14/2021 and prepared a Final Report.	3/19/2021	Conditional EPA Approval Received on 5/11/2021 Final EPA Approval Received for the Summary Report on 8/20/2021					
	Newmont received the completed Lab Data Summary Memo and approved it on		EPA Approval of Final Report - TBD					

N=Night Shift (4:00 pm to 2:30 am)

E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.)

O=Off

^{*} Equipment malfunction (battery/power supply or other)



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*HC-2021-14	Pipe Bury Depth Change Request Effluent Pipeline Stantec Engineering Requested Additional Information from Halme on 9/30/2021 - Grade Shots from Hubs for Item No. 1 (confirm 4 feet of cover). Grading is complete along the Jeep Trail - additional grade shots will be taken on 10-26-2021. Waiting on Halme to provide pipe bury depths for Item No. 1.	9/27/2021	CQA – TBD Stantec TBD EPA - TBD				
*HC-2021-16	Durability Index Test for Riprap Material around Culvert Installed on Lead-Off Ditch and Blue Creek Road Bank Stabilization New Access Road	stalled on Lead-Off Ditch Road Bank Stabilization					
*HC-2021-17	Direction on What to Do with Large Boulders Excavated During Pipe Burial Operations Effluent Pipeline	10/13/2021	CQA – TBD Stantec - TBD EPA - TBD				
HC-2021-19	Use of Non-WSDOT QPL ½-inch HMA Mix Design New Access Road	10/14/2021	CQA - 10/18/2021 Received EPA Approval on 10/20/2021				
*HC-2021-20	Use of Non-Spec. Type O Riprap - NAR Lead-Off Culvert New Access Road	10/29/2021	CQA – TBD Stantec - TBD EPA – TBD				
*WTP-2021-03	Spec Section Relevance New WTP Stantec Engineering Conducting Review of Specifications.	9/16/2021	CQA – TBD Stantec - TBD EPA - TBD				
*WTP-2021-04	Filter Press Clarifications 11563 - Recessed Plate Filter Press New WTP	10/13/2021	CQA – 10/30/2021 Stantec EPA - TBD				
*WTP-2021-05	Generator Confirmation Sheet 9-7-2 Key Note 6 New WTP	10/13/2021	Stantec – 10/21/2021 CQA – 10/30/2021 <i>EPA - TBD</i>				
*WTP-2021-06	Lime Silo Clarifications 11267 - Lime Storage and Feed System New WTP	10/15/2021	CQA – 10/30/2021 Stantec - TBD EPA - TBD				
*WTP-2021-07	RO Line Spillway Transition File Name 10-96, Sheet 10-99 New WTP	10/15/2021	CQA – TBD Stantec - TBD EPA - TBD				
*WTP-2021-08	RO Connection at Tank File Name 10-96, Sheet 10-100 New WTP	10/15/2021	CQA – TBD Stantec - TBD EPA - TBD				
*WTP-2021-09	DensaDeg Steel Tanks 11225 - 2.2.A New WTP	10/15/2021	CQA – TBD Stantec - TBD EPA - TBD				



*WTP-2021-10	Motor Corrosive Atmosphere Rating 16460 – 2.06.C.4.d New WTP	10/18/2021	CQA – TBD Stantec - TBD EPA - TBD
*WTP-2021-11	Collector Arm Scraper Coating 11225 – 2.6.A New WTP	10/18/2021	CQA – TBD Stantec - TBD EPA - TBD
*WTP-2021-12	Solids Recycle Tank Material 11225 – 1.2.C New WTP	10/19/2021	CQA – TBD Stantec - TBD EPA - TBD
*WTP-2021-13 priority	Pre-Engineered Metal Building (PEMB) Roof & Side Panels 13121 – 2.2 and 2.3 New WTP	10/29/2021	CQA – TBD Stantec EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
*02272-15.01	South Pond Geomembrane – 2021 Liner Repairs Mine Site – South Pond EPA requested South Pond Liner Repair (patch drawing) with CQA notes added to Submittal.	6/21/2021 Revised 9/21/2021	CQA – 7/22/2021 Received EPA Approval with Comments on 9/15/2021 CQA – 9/25/2021 EPA Final Review
*02272-16.02	South Pond Liner Repair Data for June 8 through July 1, 2021 Mine Site – South Pond EPA requested explanation of the South Pond berm "curb repair/retrofit" with picture added to the Submittal.	7/7/2021 Revised 9/21/2021	CQA – 7-22-2021 Received EPA Approval with Comments on 9/15/2021 CQA – 9/25/2021 EPA Final Review
*01560-01	Gorilla Snot Soil Stabilization and Dust Control Mine Site – Pit 4 and South Pond On 10/27/2021, the EPA requested additional product data from the manufacturer.	10/5/2021	CQA – 10/25/2021 EPA - TBD
*02970-09	Mulch and Ground Stabilization Mine Site Engineering response revised on 10/25/2021	10/5/2021	CQA – 10/25/2021 EPA - TBD
*02272-18	South Pond Liner Repairs – 9/14/2021 Mine Site – South Pond	10/6/2021	CQA – 10/11/2021 EPA - TBD
*02970-12 priority	Revegetation Effluent Pipeline	10/25/2021	CQA – TBD <i>EPA - TBD</i>



*HC-01532-01	Site Pre-Construction Survey for Blue Creek Road Effluent Pipeline	9/14/2021	CQA – 9/25/2021 EPA TBD			
*HC-02593-05	All Manhole Leak Tests Effluent Pipeline	10/11/2021	CQA - TBD EPA - TBD			
*HC-02200-10 priority	Copenhaver (Wilbur Pit) Base Course Gradation and Proctor New Access Road	10/19/2021	CQA - TBD <i>EPA - TBD</i>			
*WTP-01310-1	60-Day Bar Chart Schedule New WTP Newmont to provide contractor with	10/12/2021	CQA - TBD EPA - TBD			
	notes and input on this schedule.					
* WTP-01310-2	Initial Schedule New WTP	10/12/2021	CQA - TBD EPA - TBD			
*WTP-02594-1	HDPE Pipe PDS New WTP Submitted material does not meet spec rejected by the Design Engineer on 10/21/2021.	10/15/2021	CQA - TBD <i>EPA - TBD</i>			
*WTP-02596-1 priority	HDPE Dual-Containment PDS New WTP	10/15/2021	CQA - TBD EPA - TBD			
Other Items						
Date	Title Comments					
None						

^{*} New Documentation Received

Copies of the CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

None

Initial Phase Inspections

None

Follow-up Phase and Ongoing Inspections

- Tracking Dust Monitoring System All dust monitors were shut down and the meteorological station was relocated to Trailer Village on 10/27/2021.
- Effluent Pipeline Ongoing: Pipeline installation, compaction testing, pipe welding, manhole installation and electrofusion coupling installation/welding (Manholes 7 and 13), culvert removal and installation (BCR Culvert 4). Contractor finished pipeline trenching and backfilling for the duration of the winter season on 10/28/2021 up to Station 121+50.
- Effluent Pipeline and NAR Equipment mobilization inspections and demobilization notifications.

^{*} Engineer/CQA Acceptance/Information Pending

^{*} EPA Acceptance Pending



- Effluent Pipeline Horizontal directional drilling completed under West End Road and 1.5-inch conduit placed for the fiber optic line scheduled to be installed at a later date.
- New Access Road Notice of Non-Compliance issued on 10/29/2021 NAR Asphalt Compaction
- New Access Road Completed placement of top course material along the shoulder of the NAR.
- Material Delivery Pipe bedding from Lincoln Sand and Gravel.

Completion Inspections

None

THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:

Andrew Liffring, P.E.

Project Construction Director

Attachments

• Attachment A – Midnite Mine 3 Week Lookahead Schedule

Photos of pertinent items are provided below.





Figure 1 – Crushing and screening operations at the HSWRP on 1 Apr (top) and 27 Oct 2021 (bottom), view looking northwest.





Figure 2 – Excavating, loading, and hauling low activity/low reactivity material from the South Waste Rock Pile (SWRP) on 30 Apr (top) and 25 Oct 2021 (bottom), view looking north.





Figure 3 – Placement of low activity/low reactivity material in Pit 4, view from the Pit 4 Overlook on 1 Apr (top) and 27 Oct 2021 (bottom), looking south.





Figure 4 – Pit 3 water level on 28 Apr (top) and on 15 Oct (bottom).





Figure 5 – Installing liner in the SWRP East SWPPP Ditch, view looking northwest.



Figure 6 - Halme Construction excavating trench, placing bedding and checking grade along Blue Creek Road





Figure 7 – Halme Construction installing manhole at Station 121+50



Figure 8– Halme construction backfilling around manhole at Station 121+50





Figure 9– Northwest Line Builders installing conduit under West End Road for fiber optic cable.



ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE





	Midnite Mine RAWP - Three Week Look Ahead								
Activity ID	Activity Name	RD	%	Start	Finish	Oct 24 Oct 31 Nov 07 Nov 14 Nov 21			
			Complete			Fri Sat Sun Mon Tue Wed Thr Sat Su			
28-1320	Transfer water from Pit #3 to South Pond (1,000 GPM)	6d	95%	16-Sep-21 A	07-Apr-22				
	(-),,,,,		, , , ,		* ·F				
28-1200	Re-route surface water drainage features from Pit 3 and Area 5 to	12d	0%	01-Oct-21 A	15-Nov-21				
28-1160	Route PCP, Blood Pool, from Pit #3, to South Pond	6d	0%	04-Oct-21 A	07-Apr-22				
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28-1190	Route Pit #4 temporary dewatering line to South Pond	6d	0%	05-Oct-21 A	07-Apr-22				
28-1160 28-1190	Route PCP, Blood Pool, from Pit #3 to South Pond Route Pit #4 temporary dewatering line to South Pond	6d 6d	0%		07-Apr-22				